

## CTA Beta 2.0 Key features

- **Modularity:** the CTA is a set of individual components. Each component was independently developed and tested. This approach allows for faster upgrades.
- **Dynamically-Loaded Modules:** CTS modules, if present, are automatically loaded at runtime. They are developed and deployed without changing any other CTA software.
- **Binary Data is in Context:** when the CTA processes binary data it places the data into an array of fields data structures. A CTS module complexity is greatly reduced by the pre-parsed arrays of fields.
- **Structure Testing by Field Groups:** the CTS modules implement testing of groups of fields (e.g., data format record header, finger minutia header). Fields belong to groups. This approach reduces development and testing complexity.
- **Manifest or decode-based testing:** when the format of a binary implementation is known it can be described to the CTS via an XML “Manifest”. When the data structure is not known the CTS decodes the input data and develops a “Manifest”.
- **Powerful Test Case Features:** they ensure the correct operation of the test modules and test that the modules perform correctly with a wide variety of data.